TABLE OF THE ISOTOPES (Continued)

Isotope	A	Z	% Natural abundance	Atomic mass	Half-life	Decay mode	Decay energy (MeV)	Particle energy (MeV)	Particle intensity	Thermal neutron cross section	Spin (h/2π)	μ Nucl. mag. moment	Gamma-ray energy (MeV)	Gamma-ray intensity
	119	53				E.C.(46%)							Te k x-ray	
	119	53											0.2575 ± 0.0001	90%
	119	53											0.3206 ± 0.0001	2%
	119	53											0.5570 ± 0002	2%
	119	53											0.6356 ± 0.0001	3%
	119	53											0.7062 ± 0.0002	1.3%
	119	53											1.0034 ± 0.0002	0.5%
$_{53}I^{120m}$	120	53			53 m.	β+(80%)							ann.rad.	
	120	53				E.C.(20%)							Te k x-ray	
	120	53											0.4257 ± 0.0005	3%
	120	53											0.5604 ± 0.0003	100%
	120	53											0.6011 ± 0.0003	8%
	120	53											0.6147 ± 0.0003	67%
	120	53											0.6545 ± 0.0005	2%
	120	53											0.7039 ± 0.0005	2%
	120	53											0.7632 ± 0.0004	3%
	120	53											0.8818 ± 0.0005	2%
	120	53											0.9213 ± 0.0004	4%
	120	53											1.0315 ± 0.0006	1%
	120	53											1.0399 ± 0.0005	6%
	120	53											1.0592 ± 0.0005	5%
	120	53											1.1586 ± 0.0006	3%
	120	53											1.1973 ± 0.0006	2%
	120	53											1.2613 ± 0.0007	2%
	120	53											1.3346 ± 0.0007	4%
	120	53											1.3459 ± 0.0004	19%
	120	53											1.3635 ± 0.0007	4%
	120	53											1.4021 ± 0.0007	4%
	120	53											1.4050 ± 0.0005	9%
	120	53											1.7614 ± 0.001	4%
	120	53											1.7758 ± 0.001	5%
	120	53											1.8083 ± 0.001	4%
	120	53											2.4032 ± 0.001	7%
	120	53											2.4628 ± 0.0015	4%
	120	53											2.6025 ± 0.002	3%
	120	53											2.8110 ± 0.0015	4%
	120	53											2.8643 ± 0.002	2%
	120	53											2.9329 ± 0.0015	4%
	120	53											3.1051 ± 0.0015	2%
$_{53}I^{120}$	120	53		119.909840	1.35 h.	β+(81%)	5.4				2-		ann.rad.	
	120	53				E.C.(19%)							Tek x-ray	8%
	120	53											0.5427 ± 0.0003	1%
	120	53											0.5604 ± 0.0003	73%
	120	53											0.6011 ± 0.0003	6%
	120	53											0.6411 ± 0.0003	9%
	120	53											1.2016 ± 0.0005	2%
	120	53											1.5230 ± 0.0004	11%
	120	53											1.5347 ± 0.0005	2%
	120	53											2.1880 ± 0.001	1.4%
	120	53											2.4548 ± 0.0005	2%
	120	53											2.4918 ± 0.001	1%
	120	53											2.5644 ± 0.001	2%
	120	53											2.9329 ± 0.0015	0.7%
	120	53											(0.43 - 3.1)	
$_{53}I^{121}$	121	53		120.907394	2.12 h.	β+(13%)	2.28	1.2			5/2+		ann.rad.	
	121	53				E.C.(87%)							Te k x-ray	37%
	121	53											0.2122 ± 0.0001	85%
	121	53											0.5321 ± 0.0001	5.4%
	121	53											0.5988 ± 0.0001	1.4%
	121	53											(0.14 - 1.1)weak	
$_{53}I^{122}$	122	53		121.907595	3.6 m.	β+	4.23	3.1			1+		ann.rad.	
	122	53				E.C.							Te k x-ray	10%
	122	53											0.5641 ± 0.0001	18%
	122	53											0.6928 ± 0.0001	1.3%
	122	53											0.7933 ± 0.0001	1.3%
	122	53											1.7469 ± 0.0001	0.33%
	122	53											2.1923 ± 0.0001	0.26%
$_{53}I^{123}$	123	53		122.905594	13.1 h.	E.C.	1.23				5/2+		Te k x-ray	46%
	123	53											0.1590 ± 0.0001	83%
	123	53											0.4400 ± 0.0001	0.4%
	123	53											0.5290 ± 0.0001	1.4%
	123	53											0.5385 ± 0.0001	0.4%
$_{53}I^{124}$	124	53		123.906207	4.17 d.	β+(23%)	3.16	1.5			2-		ann.rad.	
	124	53				E.C.(77%)		2.1					Te k x-ray	31%
	124	53											0.6027 ± 0.0001	61%
	124	53											0.7228 ± 0.0001	10%
	124	53											1.3255 ± 0.0001	1.4%
	124	53											1.3760 ± 0.0001	1.7%
	124	53											1.5095 ± 0.0001	3%
	124	53											1.6910 ± 0.0001	10%
	124	53											2.0910 ± 0.0001	0.6%
	124	53											2.2833 ± 0.0001	0.7%
	124	53											2.7469 ± 0.0001	0.5%
$_{53}I^{125}$	125	53		124.904620	59.9 d.	E.C.	0.178			900 b.	5/2+	+3.0	Te k x-ray	74%
	125	53											0.0355 ± 0.0001	6.7%

Appendix B